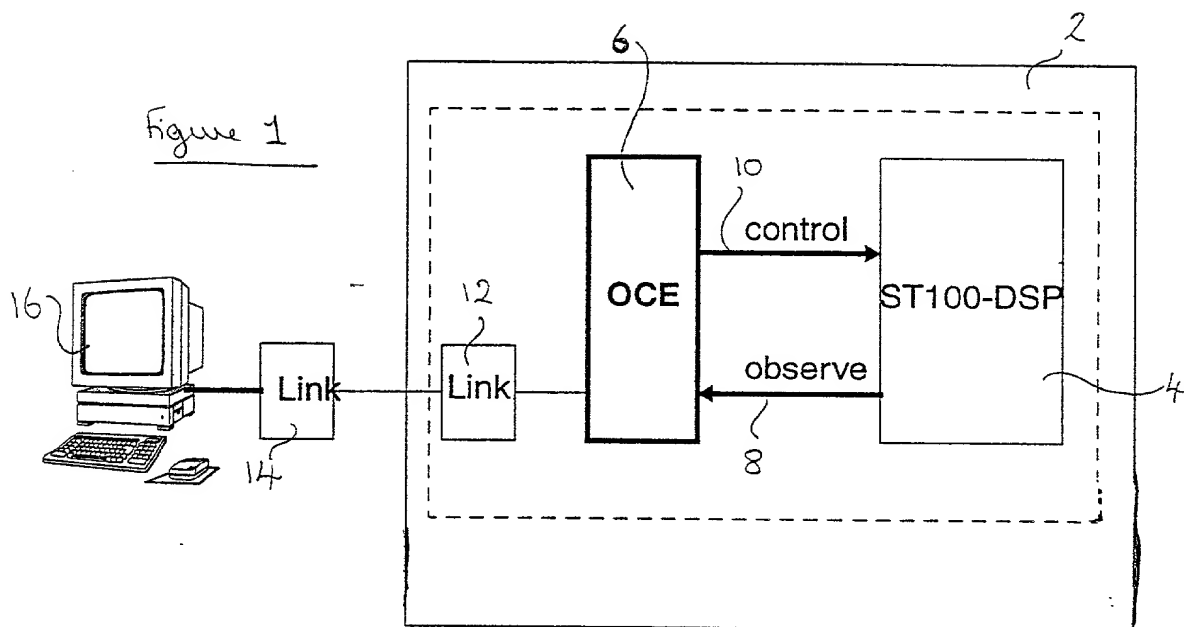


Figure 1



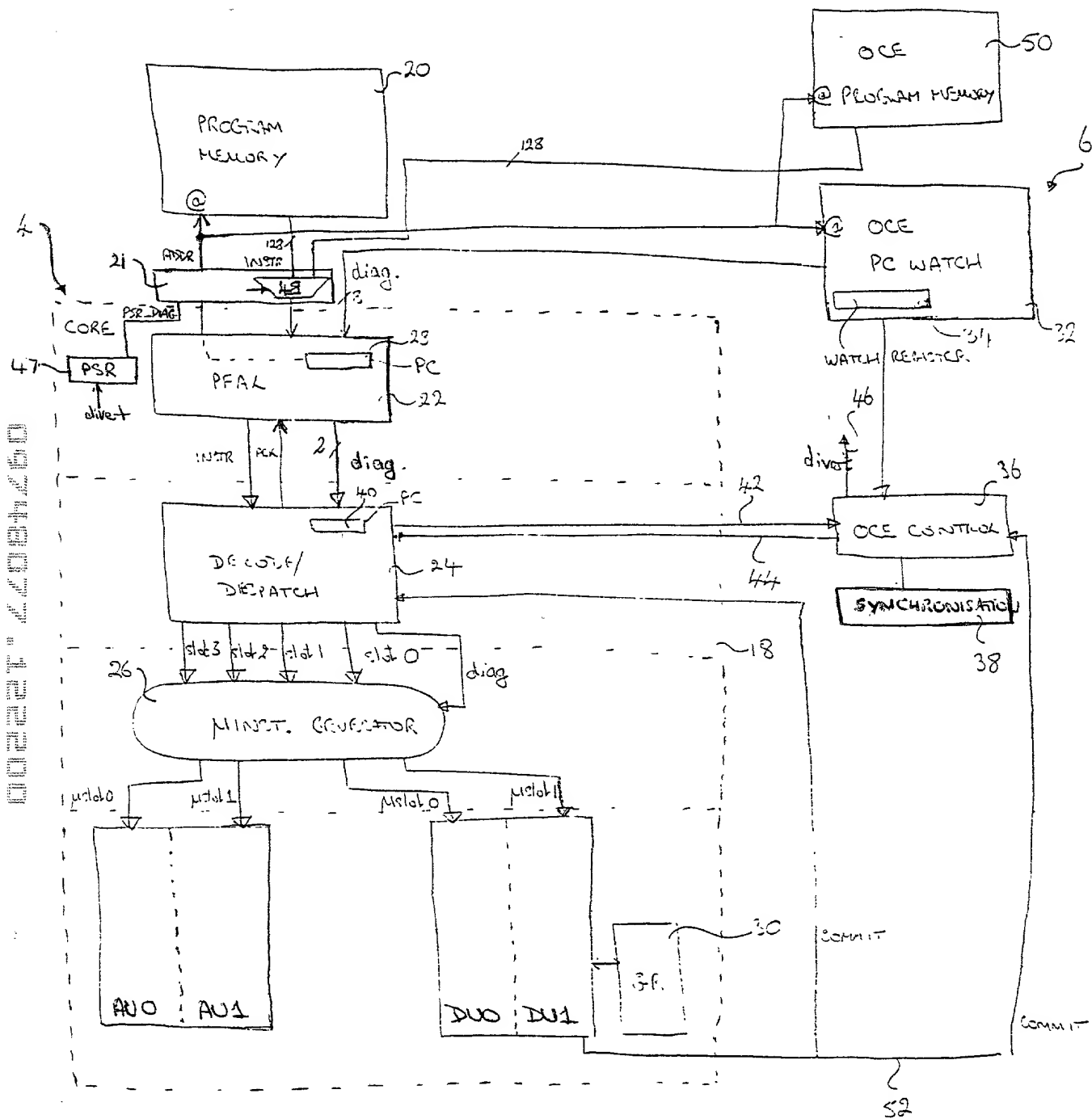


Figure 2

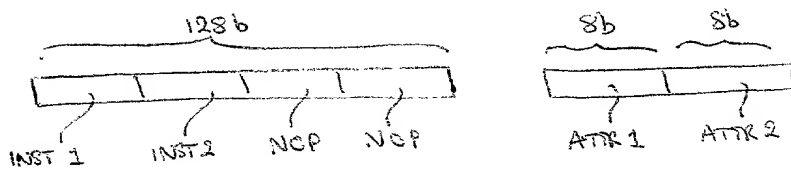


Figure 6

Variable	Mean	SD	Min	Max
Age (years)	34.5	10.2	18	65
Gender (Male/Female)	15/15	0	0	30
Marital status (Married/Single)	10/10	0	0	20
Occupation (Student/Worker)	10/10	0	0	20
Religion (Muslim/Hindu)	10/10	0	0	20
Education (High school/College)	10/10	0	0	20
Income (Low/Medium/High)	10/10/0	0	0	20
Health status (Good/Bad)	10/10	0	0	20
Smoking status (Smoker/Non-smoker)	10/10	0	0	20
Alcohol consumption (Yes/No)	10/10	0	0	20
Exercise frequency (Daily/Weekly/Monthly)	10/10/0	0	0	20
Stress level (Low/Medium/High)	10/10/0	0	0	20
Sleep quality (Good/Bad)	10/10	0	0	20
Dietary habits (Healthy/Unhealthy)	10/10	0	0	20
Family size (Small/Large)	10/10	0	0	20
Urban/Rural residence	10/10	0	0	20
Health insurance (Yes/No)	10/10	0	0	20
Chronic diseases (Yes/No)	10/10	0	0	20
Genetic factors (Yes/No)	10/10	0	0	20
Environmental factors (Yes/No)	10/10	0	0	20
Lifestyle factors (Yes/No)	10/10	0	0	20
Psychological factors (Yes/No)	10/10	0	0	20
Social factors (Yes/No)	10/10	0	0	20
Economic factors (Yes/No)	10/10	0	0	20
Cultural factors (Yes/No)	10/10	0	0	20
Religious factors (Yes/No)	10/10	0	0	20
Educational factors (Yes/No)	10/10	0	0	20
Occupational factors (Yes/No)	10/10	0	0	20
Health status factors (Yes/No)	10/10	0	0	20
Smoking status factors (Yes/No)	10/10	0	0	20
Alcohol consumption factors (Yes/No)	10/10	0	0	20
Exercise frequency factors (Yes/No)	10/10	0	0	20
Stress level factors (Yes/No)	10/10	0	0	20
Sleep quality factors (Yes/No)	10/10	0	0	20
Dietary habits factors (Yes/No)	10/10	0	0	20
Family size factors (Yes/No)	10/10	0	0	20
Urban/Rural residence factors (Yes/No)	10/10	0	0	20
Health insurance factors (Yes/No)	10/10	0	0	20
Chronic diseases factors (Yes/No)	10/10	0	0	20
Genetic factors factors (Yes/No)	10/10	0	0	20
Environmental factors factors (Yes/No)	10/10	0	0	20
Lifestyle factors factors (Yes/No)	10/10	0	0	20
Psychological factors factors (Yes/No)	10/10	0	0	20
Social factors factors (Yes/No)	10/10	0	0	20
Economic factors factors (Yes/No)	10/10	0	0	20
Cultural factors factors (Yes/No)	10/10	0	0	20
Religious factors factors (Yes/No)	10/10	0	0	20
Educational factors factors (Yes/No)	10/10	0	0	20
Occupational factors factors (Yes/No)	10/10	0	0	20
Health status factors factors (Yes/No)	10/10	0	0	20
Smoking status factors factors (Yes/No)	10/10	0	0	20
Alcohol consumption factors factors (Yes/No)	10/10	0	0	20
Exercise frequency factors factors (Yes/No)	10/10	0	0	20
Stress level factors factors (Yes/No)	10/10	0	0	20
Sleep quality factors factors (Yes/No)	10/10	0	0	20
Dietary habits factors factors (Yes/No)	10/10	0	0	20
Family size factors factors (Yes/No)	10/10	0	0	20
Urban/Rural residence factors factors (Yes/No)	10/10	0	0	20
Health insurance factors factors (Yes/No)	10/10	0	0	20
Chronic diseases factors factors (Yes/No)	10/10	0	0	20
Genetic factors factors factors (Yes/No)	10/10	0	0	20
Environmental factors factors factors (Yes/No)	10/10	0	0	20
Lifestyle factors factors factors (Yes/No)	10/10	0	0	20
Psychological factors factors factors (Yes/No)	10/10	0	0	20
Social factors factors factors (Yes/No)	10/10	0	0	20
Economic factors factors factors (Yes/No)	10/10	0	0	20
Cultural factors factors factors (Yes/No)	10/10	0	0	20
Religious factors factors factors (Yes/No)	10/10	0	0	20
Educational factors factors factors (Yes/No)	10/10	0	0	20
Occupational factors factors factors (Yes/No)	10/10	0	0	20
Health status factors factors factors (Yes/No)	10/10	0	0	20
Smoking status factors factors factors (Yes/No)	10/10	0	0	20
Alcohol consumption factors factors factors (Yes/No)	10/10	0	0	20
Exercise frequency factors factors factors (Yes/No)	10/10	0	0	20
Stress level factors factors factors (Yes/No)	10/10	0	0	20
Sleep quality factors				

95

31

15

⑤

16B

				SLOT 1	SLOT 0	SLOT 1	SLOT 0
--	--	--	--	--------	--------	--------	--------

$\leftarrow W_3 \rightarrow \leftarrow W_2 \rightarrow \leftarrow W_1 \rightarrow \leftarrow W_0 \rightarrow$

CYCLE 3

CYCLE 2

CYCLE 1

CYCLE 0

Diagram illustrating a 32-bit bus structure. The bus is divided into four slots, each labeled "SLOT 1" or "SLOT 0". A bracket above the last two slots indicates they are 32 bits wide.

32 BITS

← W_3 → ← W_2 → ← W_1 → ← W_0 →

← CYCLE 1 → ← CYCLE 0 →

SLOT 3	SLOT 2	SLOT 1	SLOT 0
--------	--------	--------	--------

32 BITS

32 BITS

$\leftarrow W_3 \rightarrow \leftarrow W_2 \rightarrow \leftarrow W_1 \rightarrow \leftarrow W_0 \rightarrow$

← CYCLED →

FIGURE 3

002222T" / 08h260

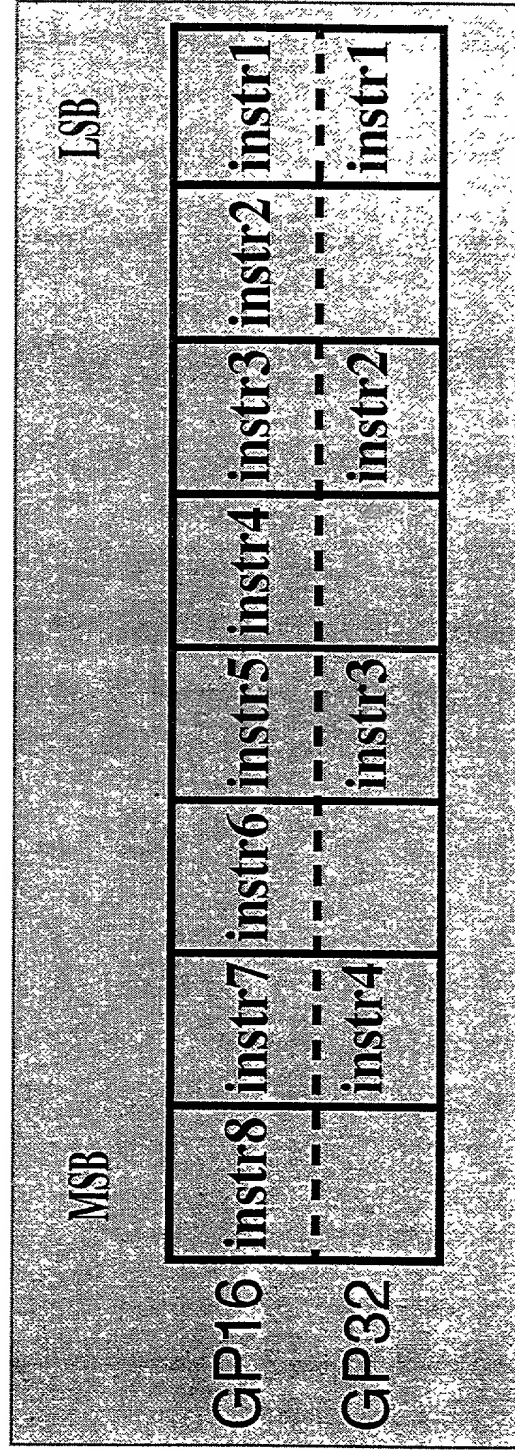


Figure 4

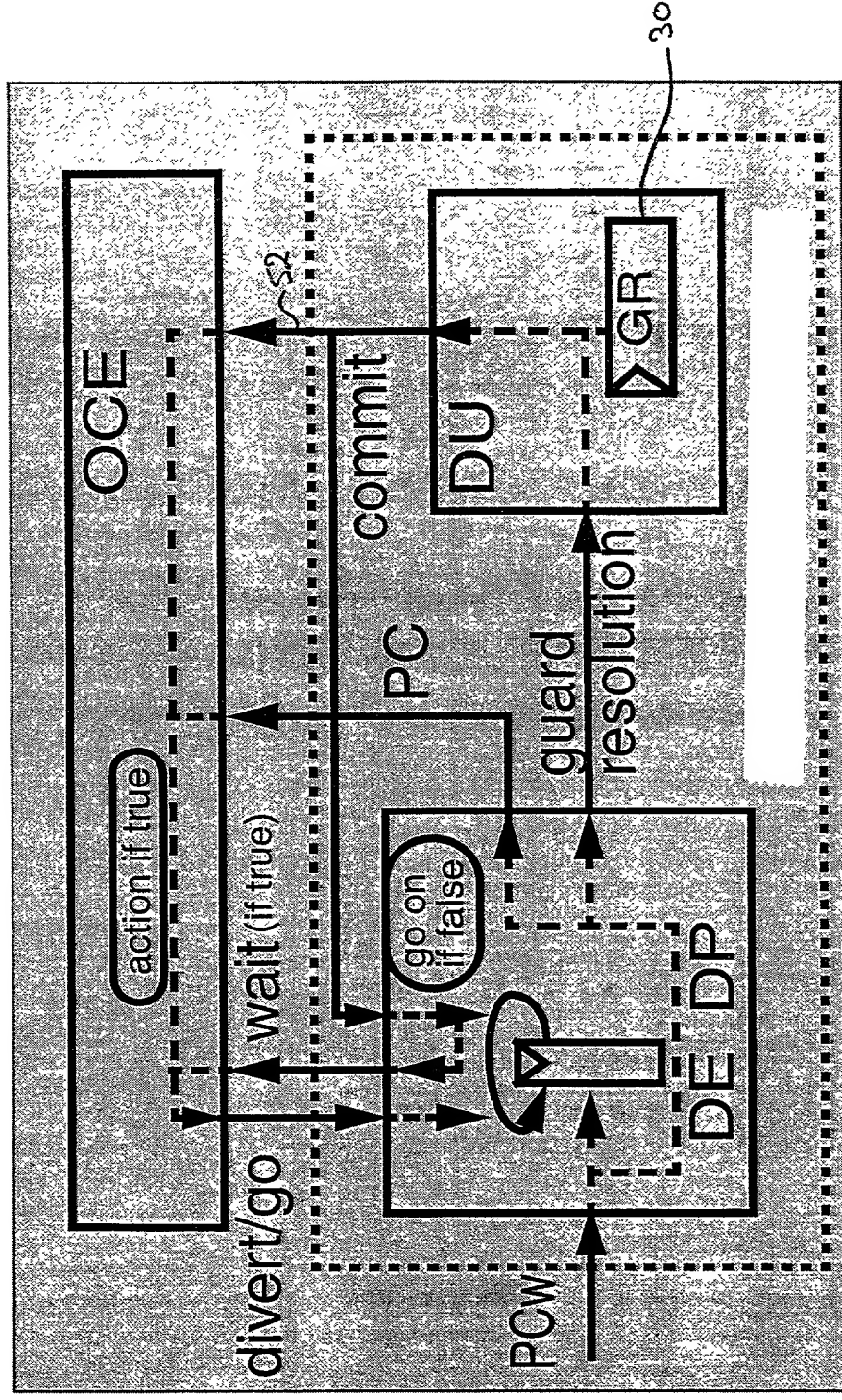


Figure 5

```

graph TD
    S1{S1  
user instruction} -- "Guarded false" --> PC1[PC+1]
    S1 -- "Guarded True" --> S2{S2  
Decoder stalled}
    S2 -- "stalled" --> S3((S3  
HOST  
16))
    S3 -- "go" --> S4[S4  
RTS + stall + atomic]
    S4 -- "'go' received" --> S5{S5  
uninstall rts instruction  
execute one user instruction  
atomically with rts instruction}
    S5 --> End[ ]
  
```

Figure 7

09748077-12200

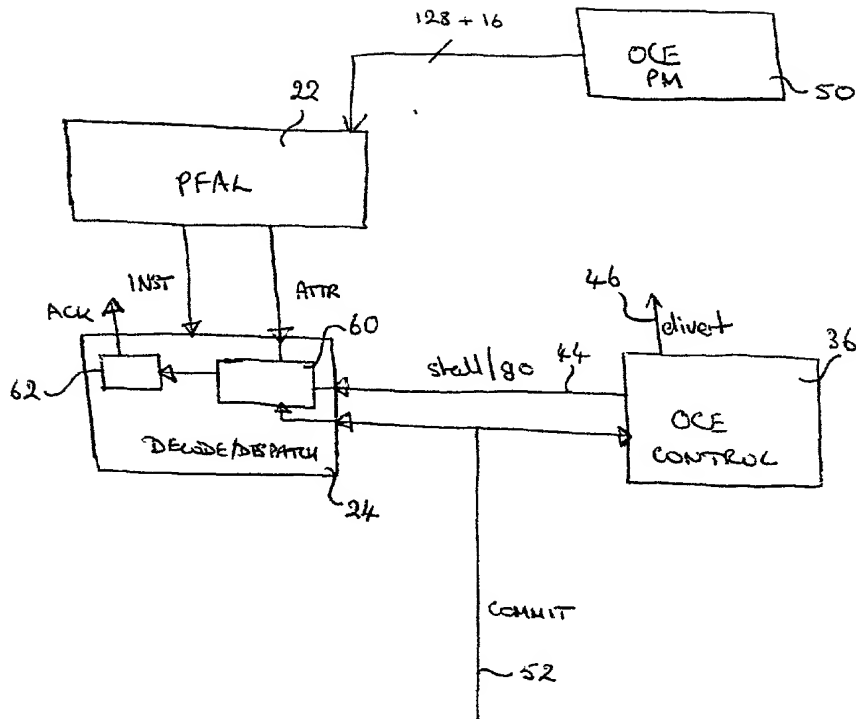


Figure 8

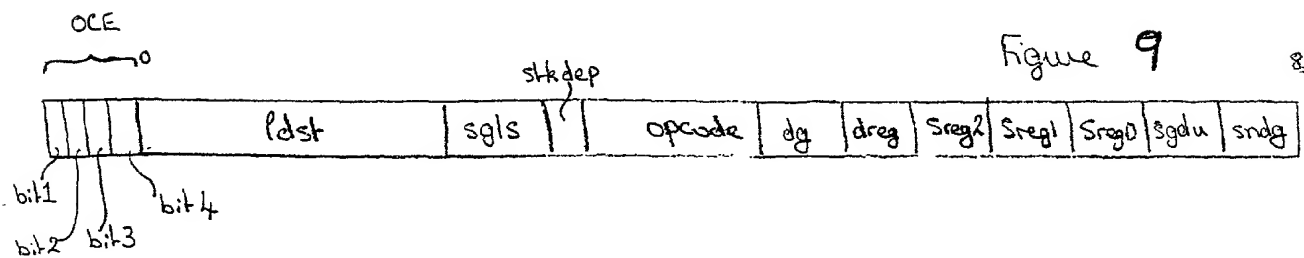


Figure 9

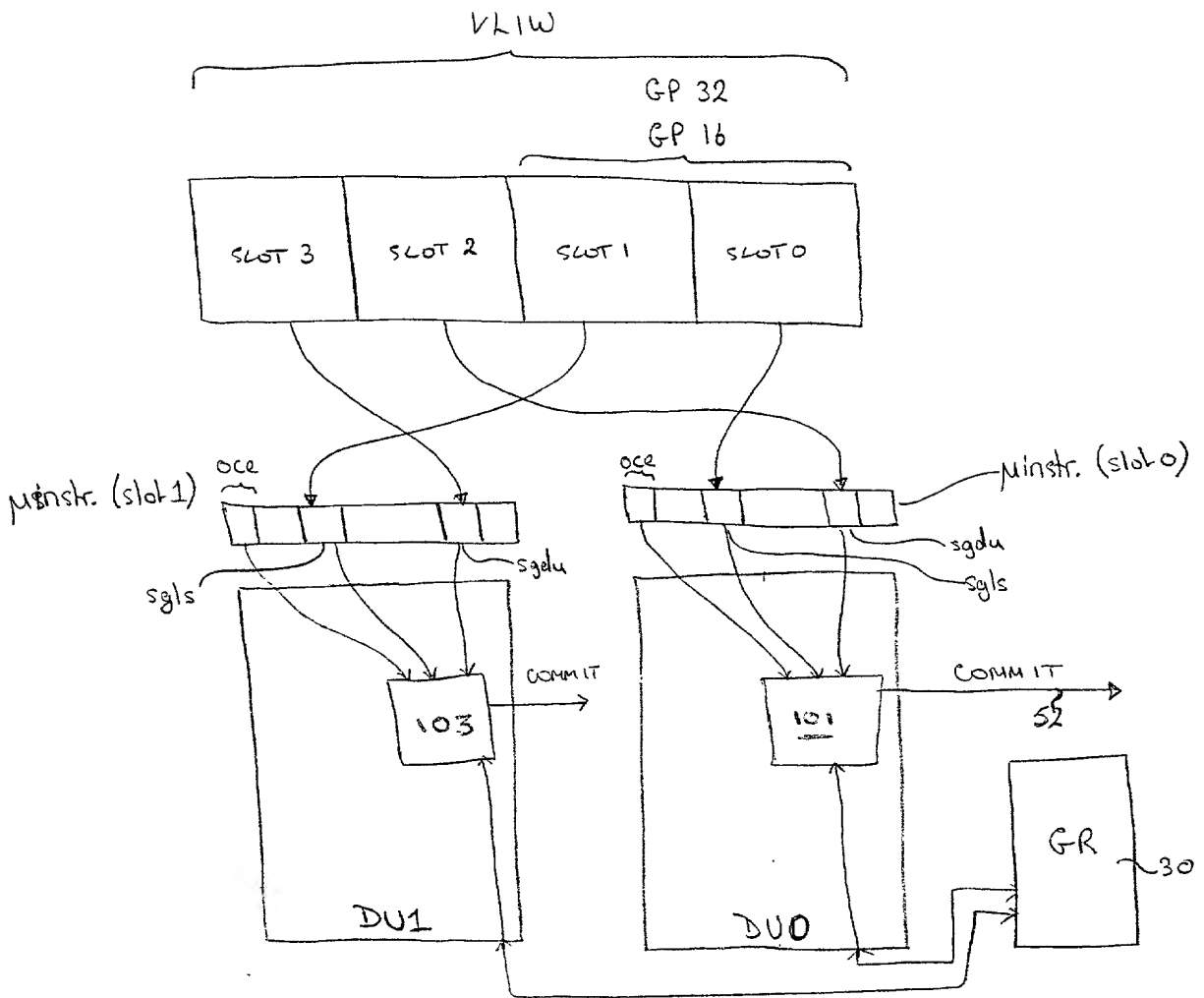


Figure 10

09748077 122200

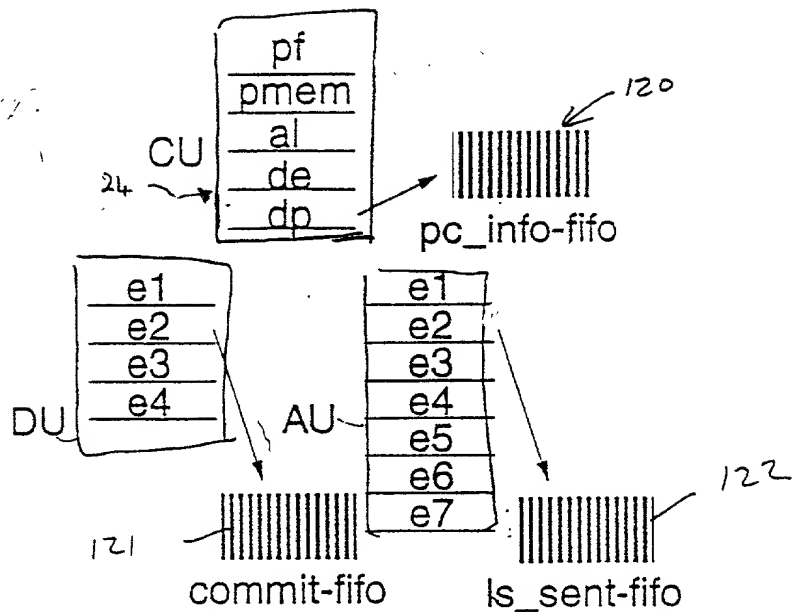


Fig. 11

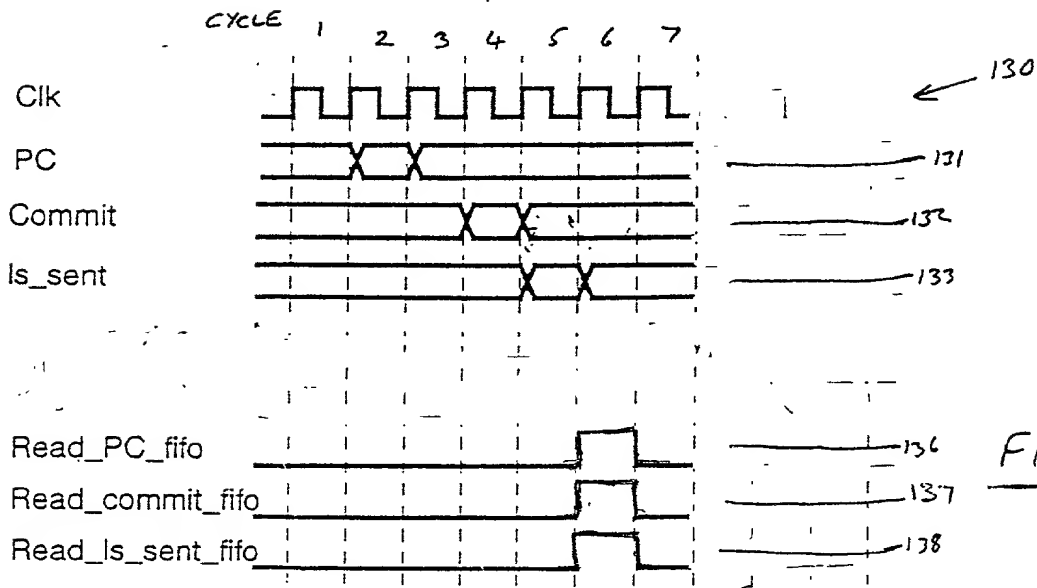


FIG 12